CLAIMS

- 1.(Original) A method for the preparation of a dispersion of zinc sulfide particles doped with copper (ZnS:Cu), said method comprising the step of performing a precipitation by mixing together a zinc salt, a sulfide, and a citrate or EDTA complex of copper ions, dissolved in several aqueous solutions.
- 2.(Original) A method according to claim 1 wherein said precipitation is performed according to the double jet principle, whereby a first solution containing said zinc salt and said citrate or EDTA complex of copper ions, and a second solution containing said sulfide are added simultaneously to a third solution.
- 3. (Previously Amended) A method according to claim 1 wherein said copper ions are copper (I) ions.
- 4. (Previously Amended) A method according to claim 1 wherein said citrate or EDTA complex of copper ions is prepared by combining copper (I) chloride with a citrate or an EDTA salt.
- 5. (Previously Amended) A method according to claim 1 further comprising the step of subjecting the mixture formed by

said 'precipitation step to a diafiltration and/or ultrafiltration treatment.

- 6.(Original) A method according to claim 5 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.
- 7.(Previously Amended) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method for the preparation of a dispersion of zinc sulfide particles doped with copper (ZnS:Cu), said method comprising the step of performing a precipitation by mixing together a zinc salt, a sulfide, and a citrate or EDTA complex of copper ions, dissolved in several aqueous solutions.
- 8. (Previously Entered) A method according to claim 2 wherein said copper ions are copper (I) ions.
- 9.(Previously Amended) A method according to claim 8 2 wherein said citrate or EDTA complex of copper ions is prepared by combining copper (I) chloride with a citrate or an EDTA salt.
- 10. (Previously Amended) A method according to claim 2 further comprising the step of subjecting the mixture formed by

- said 'precipitation step to a diafiltration and/or ultrafiltration treatment.
- 11. (Previously Entered) A method according to claim 10 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.
- 12. (Previously Entered) A method according to any of claim 3 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 13. (Previously Entered) A method according to claim 12 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.
- 14. (Previously Entered) A method according to any of claim 4 further comprising the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 15. (Previously Entered) A method according to claim 14 wherein said diafiltration and/or ultrafiltration treatment is performed in the presence of a compound preventing agglomeration of said ZnS:Cu particles.

- 16. (Previously Amended) A Thin Film Inorganic Light Emitting
 Diode device comprising a coated layer containing ZnS:Cu
 particles prepared by a method for the preparation of a
 dispersion of zinc sulfide particles doped with copper
 (ZnS:Cu), said method comprising the step of performing a
 precipitation by mixing together a zinc salt, a sulfide,
 and a citrate or EDTA complex of copper ions, dissolved in
 several aqueous solutions, wherein said precipitation is
 performed according to the double jet principle, whereby a
 first solution containing said zinc salt and said citrate
 or EDTA complex of copper ions, and a second solution
 containing said sulfide are added simultaneously to a third
 solution.
- 17. (Previously Amended) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method for the precipitation of a dispersion of zinc sulfide particles doped with copper (ZnS:Cu), said method comprising the step of performing a precipitation by mixing together a zinc salt, a sulfide, and a citrate or EDTA complex of copper ions, dissolved in several aqueous solutions, wherein said copper ions are copper (I) ions.

- 18. (Previously Amended) A Thin Film Inorganic Light Emitting
 Diode device comprising a coated layer containing ZnS:Cu
 particles prepared by a method according to claim 17,
 wherein said citrate or EDTA complex of copper ions is
 prepared by combining copper (I) chloride with a citrate or
 an EDTA salt.
- 19. (Previously Amended) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method for the preparation of a dispersion of zinc sulfide particles doped with copper (ZnS:Cu), said method comprising the step of performing a precipitation by mixing together a zinc salt, a sulfide, and a citrate or EDTA complex of copper ions, dissolved in several aqueous solutions, wherein said method further comprises the step of subjecting the mixture formed by said diafiltration and/or precipitation step to a ultrafiltration treatment.
- 20.(Previously Amended) A Thin Film Inorganic Light Emitting
 Diode device comprising a coated layer containing ZnS:Cu
 particles prepared by a method according to claim 19,
 wherein said diafiltration and/or ultrafiltration treatment
 is performed in the presence of a compound preventing
 agglomeration of said ZnS:Cu particles.

- 21. (Canceled)
- 22. (Previously Amended) A Thin Film Inorganic Light Emitting

 Diode device comprising a coated layer containing ZnS:Cu

 particles prepared by a method according to claim 16,

 wherein said copper ions are copper (I) ions.
- 23. (Previously Amended) A Thin Film Inorganic Light Emitting Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 18, wherein said precipitation is performed according to the double jet principle, whereby a first solution containing said zinc salt and said citrate or EDTA complex of copper ions, and a second solution containing said sulfide are added simultaneously to a third solution.
- 24. (Previously Amended) A Thin Film Inorganic Light Emitting
 Diode device comprising a coated layer containing ZnS:Cu
 particles prepared by a method according to claim 19,
 wherein said precipitation is performed according to the
 double jet principle, whereby a first solution containing
 said zinc salt and said citrate or EDTA complex of copper
 ions, and a second solution containing said sulfite are
 added simultaneously to a third solution.

- 25. (Previously Amended) A Thin Film Inorganic Light Emitting
 Diode device comprising a coated layer containing ZnS:Cu
 particles prepared by a method according to claim 24,
 wherein said diafiltration and/or ultrafiltration treatment
 is performed in the presence of a compound preventing
 agglomeration of said ZnS:Cu particles.
- Diode device comprising a coated layer containing ZnS:Cu particles prepared by a method according to claim 17, wherein said method further comprises the step of subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.
- 27. (Previously Amended) A Thin Film Inorganic Light Emitting
 Diode device comprising a coated layer containing ZnS:Cu
 particles prepared by a method according to claim 26,
 wherein said diafiltration and/or ultrafiltration treatment
 is performed in the presence of a compound preventing
 agglomeration of said ZnS:Cu particles.
- 28. (Previously Amended) A Thin Film Inorganic Light Emitting

 Diode device comprising a coated layer containing ZnS:Cu

 particles prepared by a method according to claim 18,

 wherein said method further comprises the step of

subjecting the mixture formed by said precipitation step to a diafiltration and/or ultrafiltration treatment.

29.(Previously Amended) A Thin Film Inorganic Light Emitting
Diode device comprising a coated layer containing ZnS:Cu
particles prepared by a method according to claim 28,
wherein said diafiltration and/or ultrafiltration treatment
is performed in the presence of a compound preventing
agglomeration of said ZnS:Cu particles.